

Amendment to the Claims:

This listing of claims will replace all versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for an access point having a basic service set comprising a plurality of associated stations operating in a plurality operative modes to provide immediate delivery of low-latency multicast/broadcast data packets to at least one of a plurality of virtual local area networks, the steps comprising:

monitoring, at the access point, all virtual local area networks comprising at least one station associated with the access point;

determining, for each monitored virtual local area network, those on at least one of the plurality of virtual local area networks; having all associated stations supporting low-latency data transmission operating in active mode;

identifying, via the access point, the at least one virtual local area network having all associated stations supporting low-latency data transmission in active mode operation; and

transmitting low-latency multicast/broadcast data packets immediately to the at least one identified virtual local area network having all associated stations supporting low-latency data transmission;

wherein the basic service set includes at least one associated station operating in power-save mode.

2. (Original) The method of claim 1, wherein the access point is an 802.11 access point.

3. (Currently Amended) The method of claim 1, wherein each station supporting low-latency data transmission in active mode is in 802.11 constantly active operation supporting low-latency data transmission.

4. (Currently Amended) The method of claim 1, further comprising the step of identifying at least one virtual local area network having the at least one associated station supporting high-latency data packets operating in power-save mode.

5. (Currently Amended) The method of claim 4, wherein each ~~high-latency~~ associated station operating in power-save mode is in 802.11 power-save protocol operation.

6. (Original) The method of claim 5, further comprising the step of buffering the multicast/broadcast data packets for the at least one virtual local area network having the at least one associated station in power-save protocol operation.

7. (Original) The method of claim 6, further comprising the step of transmitting the buffered multicast/broadcast data packets with a data traffic indicator mark.

8. (Original) The method of claim 1, wherein the associated station is a portable personal computer.

9. (Original) The method of claim 1, wherein the associated station is a personal data assistant.

10. (Currently Amended) In a network comprising at least one access point, a plurality of virtual local area networks and a plurality of associated stations in an associated basic service set operating in a plurality of operative modes, a system for automatically optimizing delivery of low-latency multicast/broadcast data packets over at least one of the virtual local area networks, comprising

means ~~adapted~~ for monitoring, at the access point, all virtual local area networks comprising at least one station associated with the access point;

means adapted for determining, for each monitored virtual local area network, those on at least one of the plurality of virtual local area networks, having all associated stations supporting low-latency data transmission operating in active mode;

means adapted for identifying, via the access point, the at least one virtual local area network having all associated stations supporting low-latency data transmission in active mode operation; and

means adapted for transmitting low-latency multicast/broadcast data packets immediately to the at least one identified virtual local area network having all associated stations supporting low-latency data transmission;

wherein the basic service set includes at least one associated station operating in power-save mode.

11. (Original) The system of claim 10 wherein the access point is an 802.11 access point.

12. (Currently Amended) The system of claim 10 wherein each low-latency associated station in active mode is in 802.11 constantly active operation supporting low-latency data transmission.

13. (Currently Amended) The system of claim 10, further comprising means adapted for identifying at least one virtual local area network having at the least one associated station supporting high-latency data packets operating in power-save mode.

14. (Currently Amended) The system of claim 13, wherein each high-latency associated station operating in power-save mode is in 802.11 power-save protocol operation.

15. (Currently Amended) The system of claim 14, further comprising means adapted for buffering the multicast/broadcast data packets for the at least one virtual local area network having the at least one associated station in power-save protocol operation.

16. (Currently Amended) The system of claim 15, further comprising means adapted for transmitting the buffered multicast/broadcast data packets with a data traffic indicator mark.

17. (Original) The system of claim 10, wherein the associated station is a portable personal computer.

18. (Original) The system of claim 10, wherein the associated station is a personal data assistant.

19. (Currently Amended) A computer program product having a computer readable medium having computer program logic recorded thereon for performing a computer implemented method for an access point having a basic service set comprising a plurality of associated stations in a plurality of operative modes to provide immediate delivery of low-latency data packets to at least one of a plurality of virtual local area networks, the steps comprising:

monitoring, at the access point, all virtual local area networks comprising at least one station associated with the access point;

determining, ~~on at least one of the plurality of virtual local area~~ for each monitored virtual local area network, those networks, having all associated stations supporting low-latency data transmission operating in active mode;

identifying, ~~via the access point, the~~ at least one virtual local area network having all associated stations supporting low-latency data transmission in active mode operation; and

transmitting low-latency multicast/broadcast data packets immediately to the at least one ~~identified~~ virtual local area network having all associated stations supporting low-latency data transmission;

wherein the basic service set includes at least one associated station operating in power-save mode.

20. (Original) The computer implemented method of claim 19, wherein the access point is an 802.11 access point.

21. (Currently Amended) The computer implemented method of claim 19, wherein ~~each low-latency data transmission supporting station in active mode~~ is in 802.11 constantly active operation supporting low-latency data transmission.

22. (Currently Amended) The computer implemented method of claim 19, further comprising the step of identifying at least one virtual local area network having ~~the~~ at least one associated station supporting high-latency data packets operating in power-save mode.

23. (Currently Amended) The computer implemented method of claim 22, wherein ~~each high-latency-associated station operating in power-save mode~~ is in 802.11 power-save protocol operation.

24. (Original) The computer implemented method of claim 23, further comprising the step of buffering the multicast/broadcast data packets for the at least one virtual local area network having the at least one associated station in power-save protocol operation.

25. (Original) The computer implemented method of claim 24, further comprising the step of transmitting the buffered multicast/broadcast data packets with a data traffic indicator mark.

26. (Original) The computer implemented method of claim 19, wherein the associated station is a portable personal computer.

27. (Original) The computer implemented method of claim 19, wherein the associated station is a personal data assistant.